

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037373 A1

(51) International Patent Classification⁷: **A61P 19/10**,
A23L 1/29, A23D 9/00, C11C 3/10, A23C 11/00, A23L
1/30

(21) International Application Number:
PCT/IL2004/000961

(22) International Filing Date: 21 October 2004 (21.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
158555 22 October 2003 (22.10.2003) IL

(71) Applicant (for all designated States except US): **ENZY-
MOTEC LTD.** [IL/IL]; Ramat-Gavriel Industrial Park,
P.O. Box 6, 23106 Migdal HaEmek (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHULMAN, Avi-
dor** [IL/IL]; 29 HaGomeh Street, 36090 Kiryat Tivon (IL).
BEN DROR, Gai [IL/IL]; P.O. Box 126, 30835 Moshav
Ofer (IL). **PELLED, Dori** [IL/IL]; 29 HaShahar Street,
45325 Hod HaSharon (IL).

(74) Agents: **LUZZATTO, Kfir** et al.; P.O. Box 5352, 84152
Beer Sheva (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A LIPID PREPARATION FOR ENHANCING MINERAL ABSORPTION

(57) Abstract: Disclosed is a dietary ingredient comprising at least one edible lipid which does not inhibit mineral absorption, enhances mineral absorption and intake, particularly a chemically or enzymatically synthesized synthetic oil, particularly glyc-
eride-based lipid with high levels of mono- or polyunsaturated fatty acids at positions sn-1 and sn-3 of the glycerol backbone,
vegetable- and plant-derived oil, such as flax and canola oils, short and medium chains lipid, preferably MCT and an oil mimicking
the triglyceride composition of human mother's milk fat and its various uses. The dietary ingredient is particularly intended for use
in enhancing calcium absorption and in the prevention and/or treatment of disorders associated with depletion of bone calcium and
bone density, prevention and treatment of osteoporosis, for the enhancement of bone formation and bone mass maximization and for
the enhancement of bone formation in infants and young children.



WO 2005/037373 A1